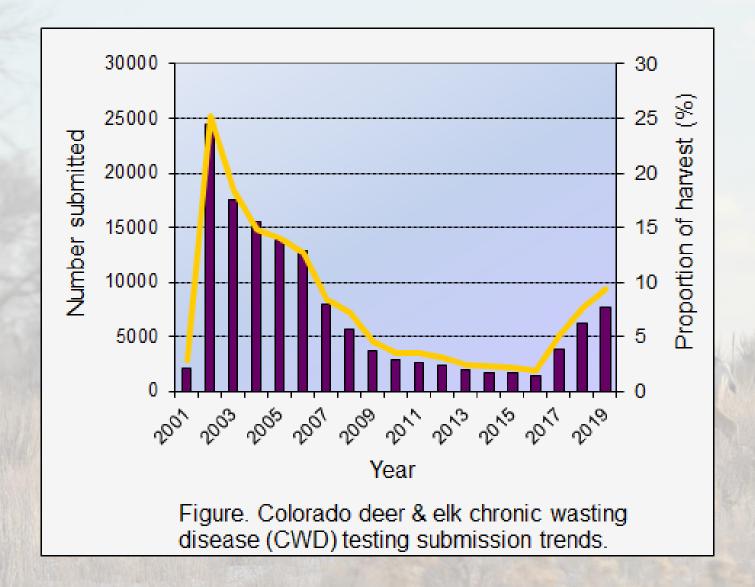
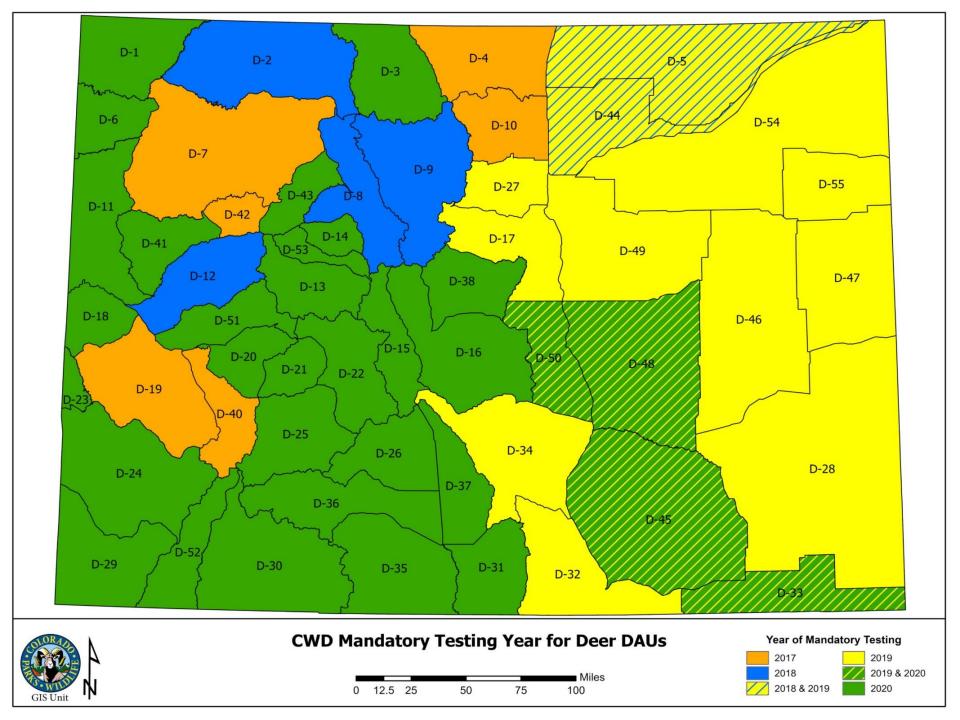
2019 Chronic Wasting Disease Update



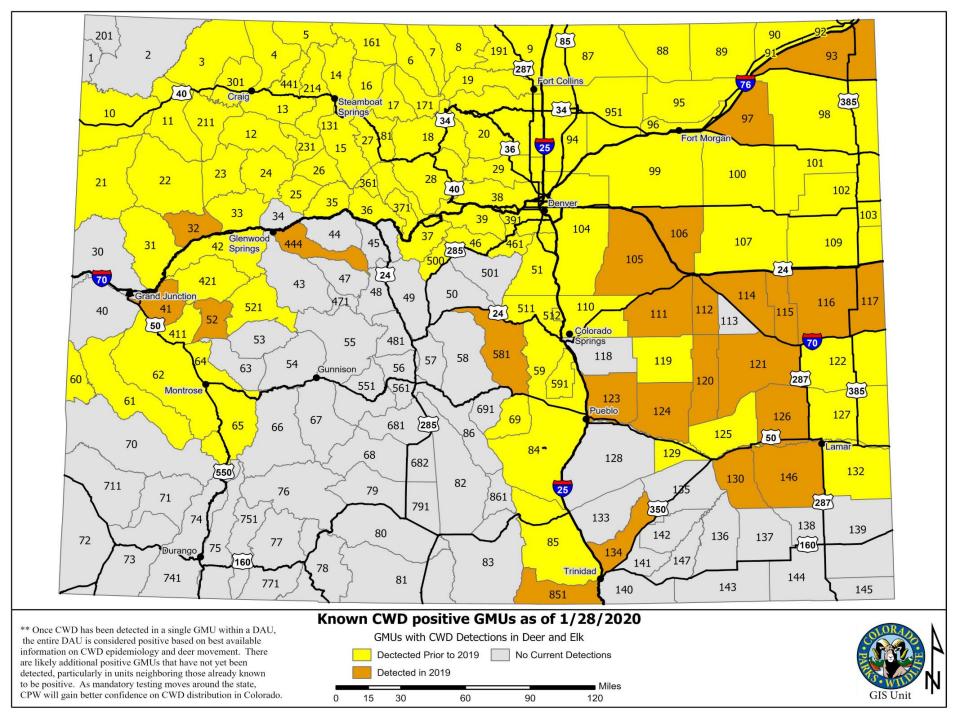


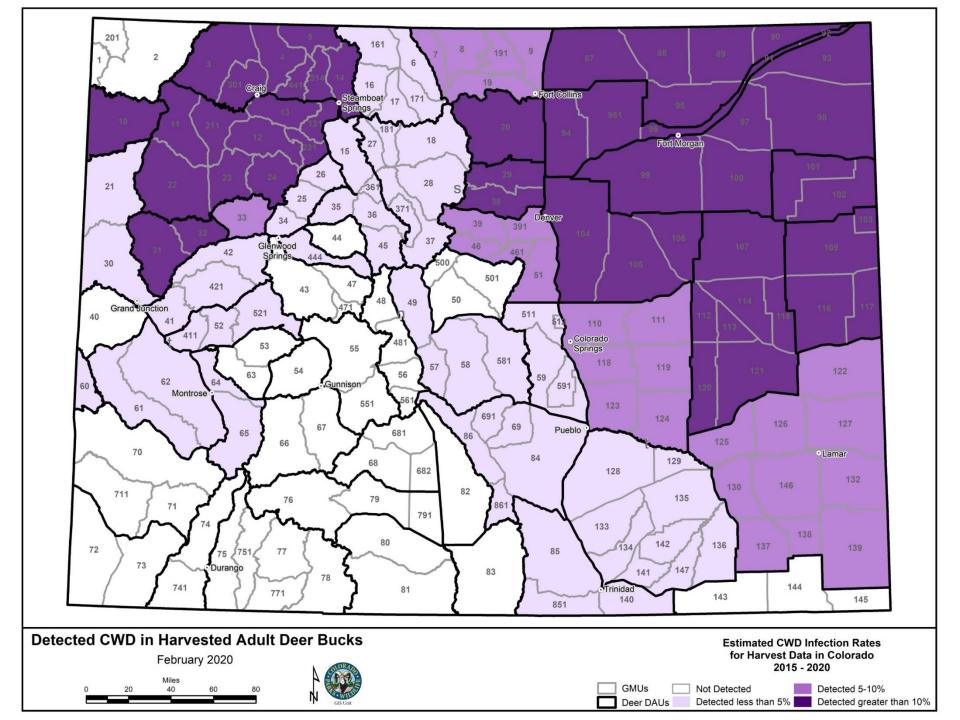


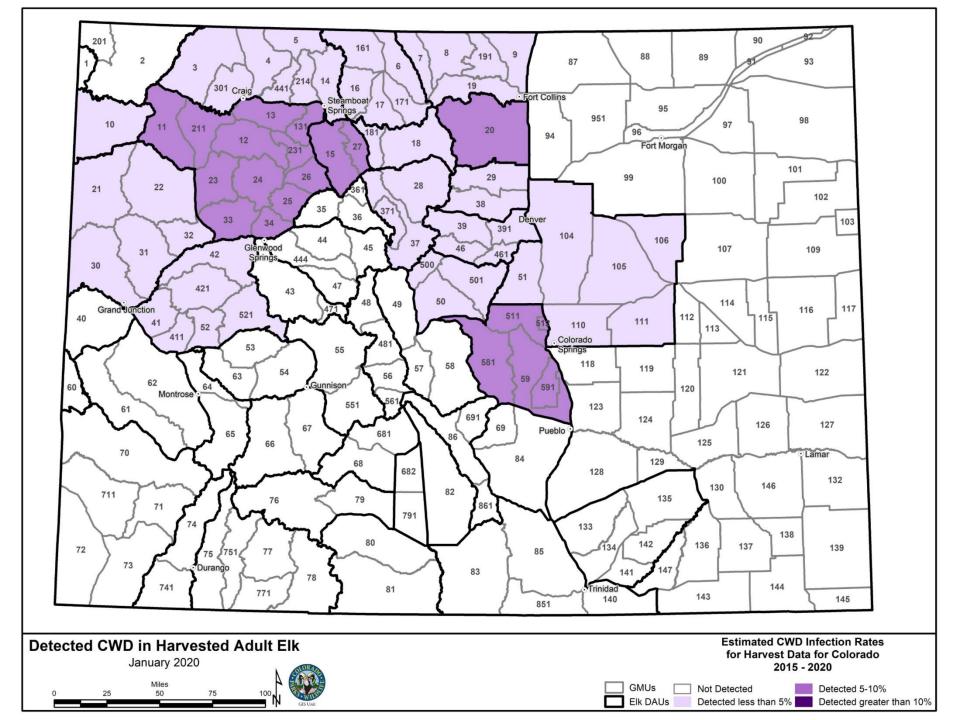


Monitoring and Surveillance Findings

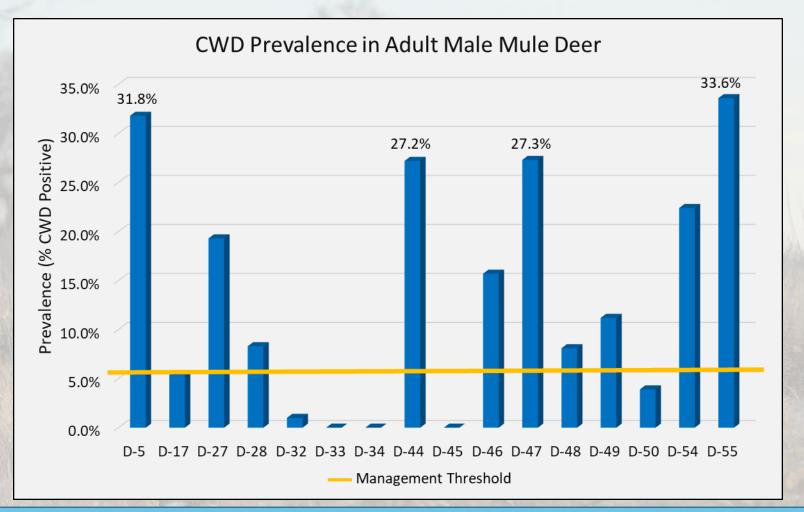






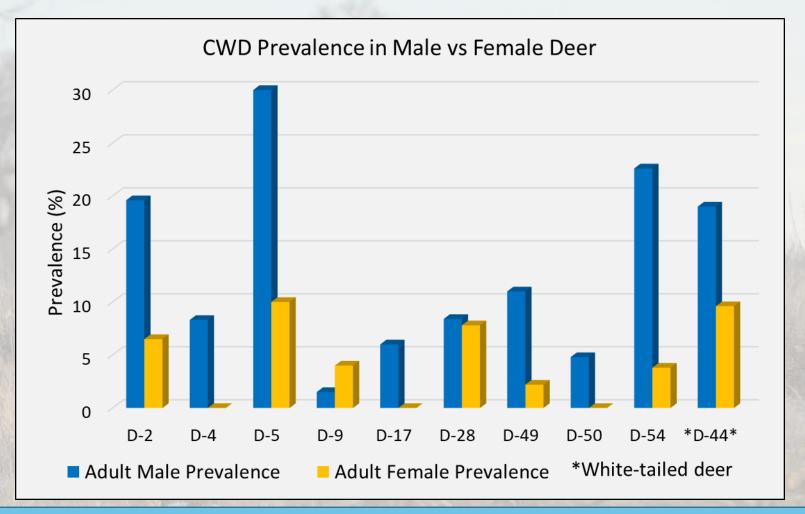


Prevalence by DAU

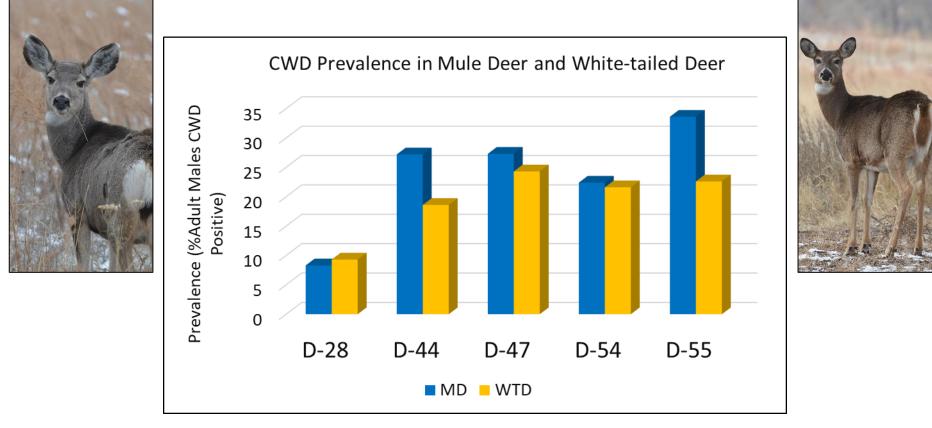




Prevalence by Sex

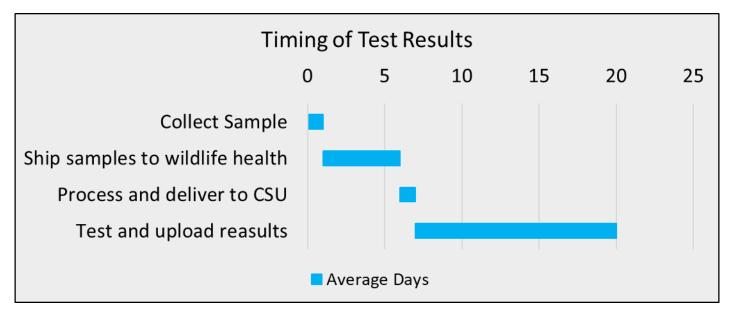


Mule Deer vs White-tailed Deer Prevalence





CWD Testing



- 1. Samples collected in the field, at area offices
- 2. Samples batched and sent to CPW wildlife health
- 3. Samples processed by wildlife health and brought to CSU diagnostic laboratory
- 4. Samples tested by CSU and results uploaded to database



CWD Research Efforts

Current Research Efforts

- Assessing harvest management influences on CWD trends in the West
- Evaluation of hunting pressure and prion infection risk in CO mule deer
- Mountain lion susceptibility to CWD
- Human Dimensions research

Future Research Plans

- Evaluate existing data on doe prevalence and impacts to survival
- Develop prospective management experiments designed for robust analysis of efficacy



Management Summary





Colorado Chronic Wasting Disease Response Plan



December 2018

Contents

I. Executive Summary	4
II. Definitions	6
III. Introduction	9
A. History of CWD in Colorado	9
B. Statement of Purpose	12
C. CWD Advisory Group	12
D. Implementation	13
IV. Management Objectives	14
V. Surveillance and Monitoring Programs	14
A. Surveillance	14
B. Monitoring and Testing Efficacy of Management Actions	14
VI. CWD Prevalence Threshold for Compulsory Disease Management	18
VII. Herd Management Plans and WAFWA Guidelines	22
VIII. Management Actions and Recommendations to Control CWD Prevalence	23
A. Reduce Population or Density	23
B. Reduce Male/Female Ratio	24
C. Change Age Structure	25
D. Maximize Ability to Remove Diseased Animals at the Smallest Scales Possible (hot spots)	26
E. Remove Motivations that Cause Animals to Congregate	27
F. Minimize Prion Point Sources	27
G. Incorporation of CWD Management Actions and Prevalence Threshold into Herd	
Management Plans	28
IX. Monitoring Results, Reassessment, and Adaptive Management Actions	29
X. Reporting Timeline, Future Plan Expansions, and Future Needs	30
XI. Education and Communications Strategy	31
XII. Acknowledgements	32
XIII. References Cited	33





CWD Prevalence Threshold for Compulsory Disease Management

Above and Below the 5% Prevalence Threshold

Establishment of a 5% prevalence threshold for compulsory intervention creates 2 management scenarios:

- 1. If the CWD prevalence estimate for adult male deer in a herd is greater than or equal to 5%, management actions will be taken to reduce prevalence until it falls below the 5% threshold.
- If the CWD prevalence estimate for adult male deer in a herd is less than 5%, management actions are recommended to maintain prevalence below the 5% threshold.





